Amendments to the Drawings

The attached sheets of drawings include amended Figs. 1, 3 and 5 and replace original sheets 1/4, 3/4 and 4/4.

In Fig. 1, reference 24a has been deleted; in Fig. 3, refs 24a' and 24a" have been deleted and in Fig. 5, reference 71 has been added.

Attachments: substitution sheets 1/4, 3/4 and 4/4.

REMARKS

Amendments to the claims

Claims 1-24 are pending.

A mistyping has been corrected in claim 1.

Claim 13 has been amended to recite "A ~~transmission module~~ _communication system_ _according to claim ~~12~~ 25 wherein the message is encoded in HTTP format and transmitted to the message broker using a HTTP POST request_".

Claim 14 has been amended to recite "A ~~client~~ _communication_ system ~~provided with a transmission module~~ _according to claim ~~12 and~~ 25 wherein the client system comprises_ a firewall, wherein the message is permitted to pass _through_ the firewall".

Claim 16 has been amended to recite "A ~~receiver module~~ _communication system_ _according to claim ~~15~~ 26 wherein, where the response comprises a time out response, the receiver module is operable to generate an output comprising re-transmitting the message request to the message broker_".

Claim 17 has been amended to recite "A ~~receiver module~~ _communication system_ _according to claim ~~15~~ 26, wherein where the response comprises a message, the receiver module is operable to generate an output comprising the content information_".

Claim 18 has been amended to recite "A ~~client~~ _communication_ system ~~comprising a receiver module~~ _according to claim ~~15~~ 26 ~~and~~ wherein the client system comprises_ a firewall, wherein the message request and the response are permitted to pass _through_ the firewall".

Claim 20 has been amended to recite "A communication system comprising a message broker according to claim 1 ~~further including~~ _and_ at least one client system".

Claim 21 has been amended to recite "A ~~message~~ _communication_ system according to claim 20 wherein the message broker and at least one client system are connected via the Internet".

The language of claim 22 has been clarified to recite "_sending a push request to place the _content_ information in a message channel corresponding to the destination information..._".

Claims 12, 15 and 23-24 have been cancelled without prejudice.

New claims 25-27 have been added. The language of claims 25-27 is supported by the specification as filed, in particular Fig. 5 and the corresponding portions of the description.

No new matter has been added.

Objections to the drawings

The drawings stand objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the reference sign 71, and because they include the following reference characters not mentioned in the description: 22a, 23a, 24a, 39.

Applicants hereby submit an amended Fig. 5 showing that reference 71 relates to the display of PC 70.

Applicants submit an amended Fig. 1 wherein reference 24a has been canceled, and an amended Fig. 3 wherein references 24a' and 24a" have been cancelled.

Paragraphs [0061], [0062], [0063], [0064], [0065], [0068], [0072], [0083] and [0088] have been amended to recite a "first adapter servlet 22*a*", a "second adapter servlet 23*a*" and a "second combined channel adapter 41 *39*".

Accordingly, Applicants respectfully request the Examiner to withdraw the objections to the drawings.

Objection to the abstract

The abstract stands objected to as comprising more than 150 words. Applicants submit a new abstract comprising less than 150 words, and request the Examiner to withdraw the objection to the abstract.

Objections to the specification

The specification stands objected to because the receiver module 19 is incorrectly referenced 20 on page 8, lines 19 and 25 and page 9, lines 24 and 27; because the first combined channel adapter 38 is incorrectly referenced 40 on page 12, lines 10 and 11; because the second combined adapter 39 is incorrectly referenced 41 on page 12, lines 10

and 16, and because the second browser 41a is incorrectly referenced 42 on page 15, line 27.

Paragraphs [0063] and [0065], which include lines 19, 25 of page 8 and lines 24, 27 of page 9, have been amended to recite a "*receiver module 20 19*".

Paragraph [0072], which includes lines 10, 11, 16 of page 12, has been amended to recite a "*first combined channel adapter 40 38*" and a "*second combined channel adapter 41 39*". However, Applicants note that line 10 of page 12 does not recite the second combined channel adapter.

Paragraph [0083], which includes line 27 of page 15, has been amended to recite a "*browser 42 41a*".

Accordingly, Applicants respectfully request the Examiner to withdraw the objections to the specification.

Objections to the claims

Claim 1 stand objected to for reciting "*a message broker for transmitting message*". According to the suggestion of the Examiner, Applicants have amended claim 1 to recite "*a message broker for transmitting a message.*

Claim 14 stands objected to for reciting "*the message is permitted to pass the firewall*". According to the suggestion of the Examiner, Applicants have amended claim 14 to recite "*the message is permitted to pass through the firewall*".

Claim 23 stands objected to for reciting "*retrieval by to a second client system*". Claim 23 has been cancelled without prejudice.

Claim 20 stands objected to as reciting "a message broker according to claim 1 further including at least one client system". Further, the Examiner asserts that claim 1 already claims two client systems. Applicants respectfully disagree, and note that claim 1 recites "*A message broker for transmitting a message from a first client system to a second client system, the message broker comprising at least one message channel, a first channel adapter and a second channel adapter*". The language of claim 1 does not recite that the broker of claim 1 comprises the first or the second client system. Therefore, Applicants submit that amended claim 20, which recites "*A communication system comprising a message broker according to claim 1 and at least one client system*", and clearly claims the

broker of claim 1 (which has no client systems) and at least one client system, does not fail to further limit the subject matter of claim 1.

In view of the above, Applicants respectfully request the Examiner to withdraw the objections to the claims.

Rejection under 35 U.S.C. 112

Claims 22 and 24 stand rejected under 35 U.S.C. 112 as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicants regard as the invention. In particular, claim 22 is rejected for reciting "the information", deemed to lack antecedent basis, and claim 24 is rejected for reciting "the request", deemed to lack antecedent basis.

Claim 22 has been amended to recite *"sending a push request to place the content information in a message channel corresponding to the destination information..."*. Applicants submit that claim 22 now complies with 35 U.S.C. 112. Accordingly, Applicants respectfully request the Examiner to withdraw this rejection of claim 22.

Claim 24 has been cancelled without prejudice.

Rejection under 35 U.S.C. 102

Claims 12 and 23 (mistyped 24) stand rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 6,023,722 to Colyer. Claims 12 and 23 have been cancelled without prejudice.

Rejection under 35 U.S.C. 103

Claims 1, 2, 4, 6, 9, 10 and 21 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Colyer in view of U.S. Pat. No. 6,453,356 to Sheard and further in view of "MQSeries Clients" (International Business Machines Corporation, 4th. Edition, 6/1996);

claim 3 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Colyer, in view of Sheard, "MQSeries Clients" and further in view of U.S. Pat. No. 5,822,523 to Rothschild;

claim 5 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Colyer, in view of Sheard, "MQSeries Clients" and further in view of "Servlet API" (Java™ Servlet API; 8/16/2000, URL: "http://web.archive.org/web/20000816001008/http://www.java.sun.com/products/servlet/");

claims 7 and 8 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Colyer, in view of Sheard, "MQSeries Clients" and further in view of "MQSeries Clients" and of the document "MQSeries Introduction" (IBM Corp. 2nd Edition, 5/1995);

claim 11 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Colyer, in view of Sheard, "MQSeries Clients" and further in view of "Netscape" (Performance differences in post vs. get method (7/16/1999, URL: http://help.netscape.com/kb/consumer/19990715-1.html));

claim 13 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Colyer;

claim 14 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Colyer, in view of U.S. Pat. No. 6,073,163 to Clark;

claims 15, 17, 22 and 24 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Colyer in view of "MQSeries Clients";

claim 16 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Colyer, in view of "MQSeries Clients" and further in view of U.S. Pat. No. 6,266,701 to Sridhar;

claims 18 and 19 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Colyer, in view of "MQSeries Clients" and further in view of Clark;

Applicants respectfully disagree.

Claim 1

Applicants note that the Examiner acknowledges that "Colyer does not disclose reading the destination information from the message, and sending the push request to place the message in the message channel corresponding to the destination information".

However, the Examiner asserts that "Sheard further discloses reading destination information from a message and sending a push request to place the message in the message channel corresponding to the destination information (col. 10, lines 54-56)". Applicants respectfully disagree. Sheard teaches (Col. 10, lines 54-56) routing requests to one or more destination OSS application to a corresponding send queue, but does not recite that such routing follows "reading destination information from a message" as asserted by the Examiner. Rather, Sheard recites (col. 2, lines 45-49) that "the data exchange engine receives data in a technology independent form from each of its associated adapters and coordinates the routing of <u>informational content</u> to particular adapters associated with applications that have <u>requested specific informational content</u>".

Applicants note that the system of Sheard only provides for routing incoming data having specific informational content <u>requested</u> by a destination application toward the destination application, but does not provides for routing incoming data having informational content not requested by a destination application toward the destination application. Applicants submit that, at least for the above reason, Sheard cannot be deemed to disclose or suggest a message broker as recited in claim 1, in particular comprising a first channel adapter operable to *"read the destination information from the message, and send a push request to place the message in a message channel corresponding to the destination information"*, with no limitation as to a message channel requesting any information from a message before the message can be placed in the message channel.

Further, Applicants submit that a fair reading of Sheard shows that the "informational content" of Sheard cannot be deemed to disclose or suggest "destination information" as recited in claim 1, since claim 1 clearly distinguishes the "destination information" from the "content information" of a message.

Further, Applicants note that the Examiner has failed to show that "MQSeries Clients" discloses or suggests a message broker comprising a first channel adapter operable to *"read the destination information from the message, and send a push request to place the message in a message channel corresponding to the destination information"*, as recited in claim 1.

Accordingly, Applicants respectfully submit that the Examiner has failed to show that a combination of Colyer, Sheard and "MQSeries Clients" would have led one skilled in the art to a message broker as recited in claim 1, and in particular comprising a first channel adapter operable to *"read the destination information from the message, and send a push request to place the message in a message channel corresponding to the destination information"*.

Further, Applicants submit that Colyer relates to a load balancing system whereas Sheard relates to a NxN data distribution system, and submit that one skilled in the art would not have been motivated to combine such documents to arrive at a 1 to 1 brokering system as recited in claim 1.

At least in view of the above, Applicants submit that claim 1 is patentable over Colyer, in view of Sheard and "MQSeries Clients".

Claims 2, 4, 6, 9, 10 and 21

Claims 2, 4, 6, 9, 10 and 21 depend directly or indirectly on claim 1. Applicants submit that at least in view of their dependency on claim 1, claims 2, 4, 6, 9, 10 and 21 are patentable over Colyer, in view of Sheard and "MQSeries Clients".

Claim 3

Claim 3 depends on claim 1. Applicants submit that the Examiner has failed to show that Rothschild discloses or suggests a message broker as recited in claim 1, and in particular comprising a first channel adapter operable to *"read the destination information from the message, and send a push request to place the message in a message channel corresponding to the destination information"*. Applicants therefore respectfully submit that the Examiner has failed to show that a combination of Colyer, Sheard, "MQSeries Clients" and Rothschild would have led one of ordinary skill in the art to a message broker as recited in claim 1, and in particular having the above-recited feature. Accordingly, Applicants submit that claim 1 is patentable over Colyer, in view of Sheard, "MQSeries Clients" and Rothschild, and that claim 3 is patentable over that art at least in view of the dependency of claim 3 on claim 1.

Claim 5

Claim 5 depends on claim 1. Applicants submit that the Examiner has failed to show that "Servlet API" discloses or suggests a message broker as recited in claim 1, and in particular comprising a first channel adapter operable to *read the destination information from the message, and send a push request to place the message in a message channel corresponding to the destination information*". Applicants therefore respectfully submit that the Examiner has failed to show that a combination of Colyer, Sheard, "MQSeries Clients" and "Servlet API" would have led one of ordinary skill in the art to a message broker as recited in claim 1, and in particular having the above-recited feature. Accordingly, Applicants submit that claim 1 is patentable over Colyer, in view of Sheard, "MQSeries Clients" and "Servlet API", and that claim 5 is patentable over that art at least in view of the dependency of claim 5 on claim 1.

Claims 7 and 8

Claims 7 and 8 depend directly or indirectly on claim 1. Applicants submit that the Examiner has failed to show that "MQSeries Introduction" discloses or suggests a message broker as recited in claim 1, and in particular comprising a first channel adapter operable to *read the destination information from the message, and send a push request to place the message in a message channel corresponding to the destination information*". Applicants therefore respectfully submit that the Examiner has failed to show that a combination of Colyer, Sheard, "MQSeries Clients" and "MQSeries Introduction" would have led one of ordinary skill in the art to a message broker as recited in claim 1, and in particular having the above-recited feature. Accordingly, Applicants submit that claim 1 is patentable over Colyer, in view of Sheard, "MQSeries Clients" and "MQSeries Introduction", and that claims 7 and 8 are patentable over that art at least in view of the dependency of claims 7 and 8 on claim 1.

Claim 11

Claim 11 depends indirectly on claim 1. Applicants submit that the Examiner has failed to show that "Netscape" discloses or suggests a message broker as recited in claim 1, and in particular comprising a first channel adapter operable to *read the*

destination information from the message, and send a push request to place the message in a message channel corresponding to the destination information". Applicants therefore respectfully submit that the Examiner has failed to show that a combination of Colyer, Sheard, "MQSeries Clients" and "Netscape" would have led one of ordinary skill in the art to a message broker as recited in claim 1, and in particular having the above-recited feature. Accordingly, Applicants submit that claim 1 is patentable over Colyer, in view of Sheard, "MQSeries Clients" and "Netscape", and that claim 11 is patentable over that art at least in view of the dependency of claim 11 on claim 1.

Claim 13

Amended claim 13 depends on new claim 25. Applicants submit that the above arguments can be used to show that Colyer does not disclose or suggest a communication system as recited in claim 25, and in particular comprising a message broker comprising a first channel adapter operable to *"read the destination information from the message, and send a push request to place the message in a message channel corresponding to the destination information"*. Accordingly, Applicants submit that claim 25 is patentable over Colyer, and that at least in view of its dependency on claim 25, claim 13 is patentable over Colyer.

Claim 14

Amended claim 14 depends on new claim 25. Applicants respectfully submit that the Examiner has failed to show that Clark discloses or suggests a communication system as recited in claim 25, and in particular comprising a message broker comprising a first channel adapter operable to *"read the destination information from the message, and send a push request to place the message in a message channel corresponding to the destination information"*. Accordingly, Applicants submit that the Examiner has failed to show that a combination of Colyer and Clark would have led one of ordinary skill in the art to a communication system as recited in claim 25, and submit that claim 25 is patentable over Colyer in view of Clark. Further, Applicants submit that at least in view of its dependency on claim 25, claim 14 is patentable over Colyer in view of Clark.

Claim 22

In the Action, the Examiner asserts that Colyer discloses a method comprising: "reading the destination information (col. 6, lines 28-30)" and "sending a push request to place the information in a message channel corresponding to the destination information (col. 6, lines 28-30)".

Applicants note that the position of the Examiner regarding Colyer is not consistent. With reference to claim 1, the Examiner states that "Colyer does not disclose reading the destination information from the message, and sending the push request to place the message in the message channel corresponding to the destination information". With reference to claim 22, the Examiner states that Colyer discloses "reading the destination information" and "sending a push request to place the information in a message channel corresponding to the destination information". Accordingly, should the Examiner eventually consider issuing a further Office Action, Applicants respectfully request the Examiner to issue a non-final Action.

Further, Applicants respectfully disagree with the assertion of the Examiner, and note that in col.6, lines 28-30, Colyer recites: "As requests (messages) having URL's specifying server 3b are received (step 301 of FIG. 3) from client web browsers 1a-1n over the Internet, messaging and queuing unit 31 of server 3b receives and stores (step 302) the requests in a queue". Applicants submit that Colyer discloses receiving messages having destination information (URLs specifying server 3b), but does not recite reading the destination information. Applicants further submit that since all the messages received by server 3b in Colyer have the same destination information (specifying server 3b), and are stored in one single queue, Colyer fails to suggest that reading the destination information of the received messages might be of any use. Applicants therefore submit that Colyer also fails to suggest reading "destination information". Applicants note that Colyer teaches (col. 7, lines 14-18) reading (looking) the extensions (HTML, GIF) of the URLs of the messages, and note that such extensions allow to point to text or image files stored on any of the servers 32a-32n of Colyer and are therefore not indicating a destination and cannot be deemed to disclose or suggest destination information.

At least in view of the above, Applicants submit that Colyer does not disclose or suggest a method as recited in claim 22, and in particular comprising receiving a message comprising destination information and "reading the destination information".

Further, Applicants note that the Examiner has failed to show that "MQSeries Clients" discloses or suggests a method as recited in claim 22, and in particular comprising receiving a message comprising destination information and "reading the destination information".

Accordingly, Applicants respectfully submit that the Examiner has failed to show that a combination of Colyer and "MQSeries Clients" would have led one skilled in the art to a method as recited in claim 22, and in particular comprising the above-recited feature, and submit that claim 22 is patentable over Colyer and "MQSeries Clients".

Claims 15, 17 and 24

Claims 15 and 24 have been cancelled without prejudice. Amended claim 17 depends on new claim 26. Applicants submit that the arguments above can be used to show that Colyer fails to disclose or suggest a communication system as recited in claim 26, and in particular comprising a first channel adapter being operable to *"read the destination information from the message, and send a push request to place the message in a message channel corresponding to the destination information"*. Further, Applicants submit that the Examiner has failed to show that "MQSeries Clients" discloses or suggests a communication system as recited in claim 26, and in particular comprising the above-recited features. Accordingly, Applicants respectfully submit that the Examiner has failed to show that a combination of Colyer and "MQSeries Clients" would have led one skilled in the art to a communication system as recited in claim 26, and submit that claim 26 is patentable over Colyer and "MQSeries Clients". Further, Applicants submit that at least in view of its dependency on claim 26, claim 17 is patentable over Colyer and "MQSeries Clients".

Claim 16

Amended claim 16 depends on new claim 26. Applicants respectfully submit that the Examiner has failed to show that Sridhar discloses or suggest a communication system as recited in claim 26, and in particular comprising a first channel adapter being operable to "read the destination information from the message, and send a push request to place the message in a message channel corresponding to the destination information". Accordingly, in view of the above, Applicants submit that the Examiner has failed to show that a combination of Colyer, "MQSeries Clients" and Sridhar would have led one of ordinary skill in the art to a communication as recited in claim 26, and submit that claim 26 is patentable over Colyer, in view of "MQSeries Clients" and Sridhar.

Applicants further submit that at least in view of its dependency on claim 26, claim 16 is patentable over Colyer, in view of "MQSeries Clients" and Sridhar.

Claims 18 and 19

Amended claims 18 and 19 depend directly or indirectly on claim 26. Applicants respectfully submit that the Examiner has failed to show that Clark discloses or suggest a communication system as recited in claim 26, and in particular comprising a first channel adapter being operable to "read the destination information from the message, and send a push request to place the message in a message channel corresponding to the destination information". Accordingly, in view of the above, Applicants submit that the Examiner has failed to show that a combination of Colyer, "MQSeries Clients" and Clark would have led one of ordinary skill in the art to a communication as recited in claim 26, and submit that claim 26 is patentable over Colyer, in view of "MQSeries Clients" and Clark.

Applicants further submit that at least in view of their dependency on claim 26, claims 18 and 19 are patentable over Colyer, in view of "MQSeries Clients" and Clark.

New claims 25, 26 and 27

It has been seen above that claim 25 is patentable over Colyer and colyer in view of Clark, and that claim 26 is patentable over Colyer in view of "MQSeries Clients". Further, Applicants respectfully submit that the above arguments can be used to show

that the Examiner has failed to show that a combination of the cited art would have led one skilled in the art to a communication system as recited in claim 25, 26 or 27, and in particular comprising a message broker comprising a first channel adapter operable to *"read the destination information from the message, and send a push request to place the message in a message channel corresponding to the destination information"*. Accordingly, Applicants submit that claims 25, 26 and 27 are patentable over the art cited by the Examiner.
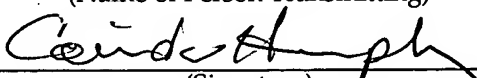
* * *

In view of the above, Applicants submit that the application is now in condition for allowance and respectfully urge the Examiner to pass this case to issue.

The Commissioner is authorized to charge any additional fees that may be required or credit overpayment to deposit account no. 08-2025. In particular, if this response is not timely filed, the Commissioner is authorized to treat this response as including a petition to extend the time period pursuant to 37 CFR 1.136(a) requesting an extension of time of the number of months necessary to make this response timely filed and the petition fee due in connection therewith may be charged to deposit account no. 08-2025.

I hereby certify that this correspondence is being deposited with the United States Post Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on
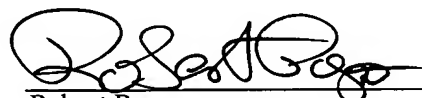
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(Date of Transmission)

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Attachments: replacement sheets 1/4, 3/4, 4/4.